



AFCTN Test Report 94-134

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TMSS Parsing Test



MIL-M-87929A, Appendix L,
Installation-Engineering Facility
(Ground C-E Equipment)



Document Type Definition



MAXIMA Corporation

DISA Contract #DCA100-93-D-0065

Quick Short Test Report

22 June 1994



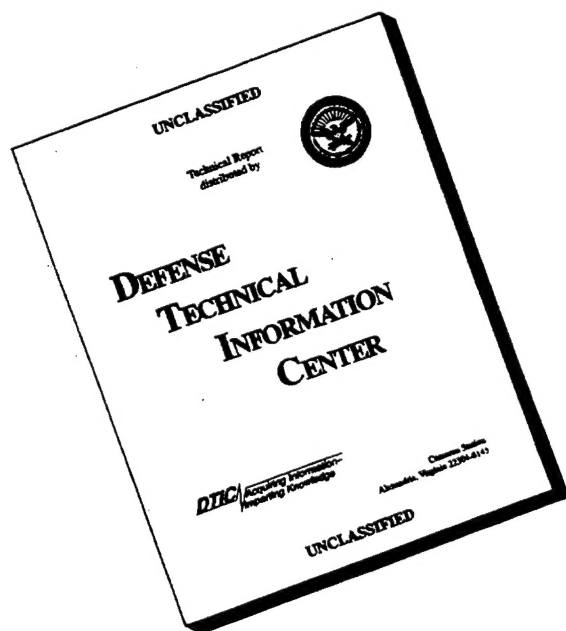
Prepared for
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19960321 109

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MIL-M-87929A, Appendix L,
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(Ground C-E Equipment)
Document Type Definition
For:
MAXIMA Corporation
DISA Contract #DCA100-93-D-0065

Quick Short Test Report

22 June 1994

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Air Force CALS Test Bed

Notification of Test Results

22 June 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

MAXIMA Corporation

Identified as follows:

Title:	MIL-M-87929A, Appendix L, Installation-Engineering Facility (Ground C-E Equipment), DTD Parsing Test
Program:	DISA
Program Office:	DISA
Contract No.:	DCA100-93-D-0065
QSTR No.:	AFCTB-ID 94-081

Received on the following media: **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	N/A
MIL-D-28000A IGES:	N/A
MIL-M-28001B SGML:	Fail
MIL-R-28002A Raster:	N/A
MIL-D-28003 CGM:	N/A

Formal results with associated disclaimer are documented and available from the AFCTB.

**Air Force CALS Test Bed
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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax, using several commercial and public domain SGML parsers, prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

2. Test Parameters

Test Plan: AFCTB 94-081

Date of Evaluation: 22 June 1994

Evaluator: George Elwood
Air Force CALS Test Bed
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4027 Colonel Glenn Hwy
Suite 300
Dayton OH 45431-1672

Data Originator: Kay Hill
MAXIMA Corporation
2372 Lakeview Drive
Beavercreek OH 45431
(513) 427-5888

Data Description: Technical Manual Test
1 DTD

Data Source System:

Text/SGML
SOFTWARE
Unknown

Evaluation Tools Used:

MIL-M-28001 (SGML)
PC 486/50
Exoterica XGMLNormalizer v1.2e3.2
Exoterica Validator v2.2 ex1
McAfee & McAdam Sema Mark-it v2.3
Public Domain sgmls 1.1

Standards Tested: MIL-M-28001B

3. 1840A Analysis

3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]">" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-M-87929A, Appendix L, Installation-Engineering Facility (Ground C-E Equipment), called a sequence of companion DTDs, each in turn, as illustrated by the diagram below. These DTDs were delivered on the same diskette as the DTD to be evaluated. The DTDs were not changed except to point to the succeeding DTD in the sequence and to insert the location of the ISO character set files in the D784CB0.A3 DTD.


```
<!-- **Warning** in "\xgml\9481.dtd", line 278:
  An element is not allowed in the document instance because it does
  not
  appear in any accessible content model or it is completely excluded.
  The element is "APPENDIX".
-->
```

The third type warning was for an element used but not defined. This warning indicates an error in the DTD syntax.

```
<!-- **Warning** in "\xgml\9481.dtd", line 278:
  An element name specified in a USEMAP declaration, ATTLIST declaration or
  content model is not defined by an ELEMENT declaration.
  The element name is "UNIT".
-->
```

4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start and "]">" to the end of the file. One warning was issued by this utility for an element used but not defined. This warning indicates an error in the DTD syntax.

C:\XGML\XGMLNORM.EXE -- Warning on line 278 in file 9481.dtd: An undeclared element na used in a content model. The element is 'UNIT'.

4.3 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* v1.1 parser. The file was modified by adding the "<!DOC-TYPE doc [" to the start and "]">" to the end of the file as stated in the comments in the DTD. The D929AA0.ORG, D807BA0.A1 and D784CB0.A3 files were used as the point to files. The parser reported one error. The error was a TOTCAP exceeded, which was reported as 251645.

sgmls: SGML error:
Capacity limit TOTALCAP exceeded by 51645 points

The parser reported 21 total warnings of two types. The first type warning was for duplicate definitions. See Note 1 above.

sgmls: In file included at \ws\9481.dtd, line 50:
Warning at c:\ws\929a.dtd, line 83 in declaration parameter 4:
Duplicate specification occurred for "%list"; duplicate ignored

The second type warning relates to an element used but not defined. This warning indicates an error in the DTD syntax.

sgmls: Warning at \ws\9481.dtd, line 206 at record end:
Element "UNIT" used in DTD but not defined

4.4 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start and "]">" to the end of the file. The parser reported errors that did not appear to be consistent with the rest of the parsers. The files used were the exact files parsed by the Exoterica parsers.

```
<!--*** file:\xgml\9481.dtd line:142 pos:4646
Unknown parameter entity name (wp) used in reference.
If name is spelt correctly check that the entity declaration in the DTD
contains a PERO (e.g. %) symbol followed by a space.-->
```

```
<!ELEMENT cleaningwp      - - (%wp;, wpforewd, safesum?,
                               techinfo, swp*)
                               +(figure | table | foldout) >
<!ATTLIST cleaningwp      chgno NUMBER "0"
                               %bodyatt;
                               %secur; >
```

5. Conclusions and Recommendations

The file D929AL0.ORG, MIL-M-87929A, Appendix L, Installation-Engineering Facility (Ground C-E Equipment), does not conform to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification. This conclusion is derived from the parser test warnings which indicate elements are used that are not defined.

6. Appendix A - Detailed SGML Analysis

6.1 Exoterica Validator

```
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 83,
      used in "\xgml\9481.dtd", line 122:
      A parameter entity name has been declared more than once.
      The entity is "%list".
      <!ENTITY % list "(seqlist | randlist | deflist)" >
      ----
-->
<!-- **Warning** in "c:\ws\929a.dtd" (entity "%m87929a"), line 85,
      used in "\xgml\9481.dtd", line 122:
      A parameter entity name has been declared more than once.
      The entity is "%spcpara".
      <!ENTITY % spcpara "(warning?, caution?, note?)" >
      -----
-->
The entity is "%fpi".
The entity is "%forwp".
The entity is "%sttec".
The entity is "%frnt".
The entity is "%yesorno".
The entity is "%ipbforwd".
The entity is "%math".
The entity is "%mathtxt".
The entity is "%shorttitleuse".
The entity is "%shorttitle".
The entity is "%yesorno".
The entity is "%itemid".
The entity is "%content".
The entity is "%bodyatt".
The entity is "%list".
The entity is "%spcpara".
The entity is "%frnt".
The entity is "%fpi".
The entity is "%titles".
The entity is "%fig".
The entity is "%bodyele".
The entity is "%graphatt".
The entity is "%entryatt".
The entity is "%lrp".
```


<!-- **Warning** in "\xgml\9481.dtd", line 278:

An element is not allowed in the document instance because it does not appear in any accessible content model or it is completely excluded.
The element is "APPENDIX".

-->

The element is "BODY".
The element is "CHAPTER".
The element is "CHGINSSHT".
The element is "CHGLIST".
The element is "CHGREC".
The element is "DATE".
The element is "DATEINC".
The element is "DDCHAPTER".
The element is "DDDESC".
The element is "DDINDEX".
The element is "DDINTRO".
The element is "DDLIST".
The element is "DESC".
The element is "DOC".
The element is "DOCIPB".
The element is "DOCPART".
The element is "DOCWP".
The element is "ECPNO".
The element is "ESDS".
The element is "FIGINDEX".
The element is "FINDING".
The element is "FOREWORD".
The element is "GLOSSARY".
The element is "HCI".
The element is "INDEX".
The element is "INSERTPG".
The element is "INTRO".
The element is "IPBFORWORD".
The element is "IPBWP".
The element is "MFRLIST".
The element is "MODELCOVER".
The element is "NUMINDX".
The element is "PARTNAME".
The element is "PARTSTD".
The element is "PENAPP".
The element is "PGNO".
The element is "PL".
The element is "PLO".
The element is "PL1".
The element is "PL2".
The element is "PL3".
The element is "PL4".
The element is "PL5".
The element is "PL6".

The element is "PL7".
The element is "PREFACE".
The element is "QUICKCHGEXPL".
The element is "RATD".
The element is "REAR".
The element is "REFDES".
The element is "REINTEST".
The element is "REMARKS".
The element is "REMOVEPG".
The element is "REPTTEST".
The element is "RFDSINDX".
The element is "SECTION".
The element is "SERIALIZATION".
The element is "SERTABLE".
The element is "SHORTTITLE".
The element is "SHTNOEXPL".
The element is "SIMASSEM".
The element is "SMRCODE".
The element is "SMREXPL".
The element is "SSSN".
The element is "TYPENO".

<!-- **Warning** in "\xgml\9481.dtd", line 278:

An element name specified in a USEMAP declaration, ATTLIST declaration or
content model is not defined by an ELEMENT declaration.
The element name is "UNIT".

-->

<!-- **Warning** in "\xgml\9481.dtd", line 278:

An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "UNITS".

-->

The element is "USEONCODE".
The element is "USEONCODELIST".
The element is "USEONEXPL".
The element is "VOLUME".
The element is "WARNPAGE".
The element is "WP".

<!-- Capacity points/limits:

TOTALCAP =254616/300000
ENTCAP =13568/200000
ENTCHCAP =20232/70000
ELEMCAP =9344/70000
GRPCAP =73376/100000
EXGRPCAP =1664/70000
EXNMCAP =4288/70000
ATTCAP =94816/200000
ATTCHCAP =2253/70000

AVGRPCAP =34816/70000
NOTCAP =96/70000
NOTCHCAP =163/70000
IDCAP =0/70000
IDREFCAP =0/70000
MAPCAP =0/70000
LKSETCAP =0/70000
LKNMCAP =0/70000

-->

<!-- 0 errors and 100 warnings reported. -->

6.2 Exoterica XGMLNormalizer Parser

C:\XGML\XGMLNORM.EXE --

Warning on line 278 in file 9481.dtd:

An undeclared element name was used in a content model.

The element is 'UNIT'.

6.3 Public Domain sgmls Log

sgmls: In file included at \ws\9481.dtd, line 50:

Warning at c:\ws\929a.dtd, line 83 in declaration parameter 4:

Duplicate specification occurred for "%list"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

Warning at c:\ws\929a.dtd, line 85 in declaration parameter 4:

Duplicate specification occurred for "%spcpara"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

Warning at c:\ws\929a.dtd, line 88 in declaration parameter 4:

Duplicate specification occurred for "%fpi"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

Warning at c:\ws\929a.dtd, line 92 in declaration parameter 4:

Duplicate specification occurred for "%forwp"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

Warning at c:\ws\929a.dtd, line 95 in declaration parameter 4:

Duplicate specification occurred for "%sttec"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

In file included at c:\ws\929a.dtd, line 205:

Warning at c:\ws\807b.dtd, line 31 in declaration parameter 4:

Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

In file included at c:\ws\929a.dtd, line 205:

Warning at c:\ws\807b.dtd, line 45 in declaration parameter 4:

Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

In file included at c:\ws\929a.dtd, line 205:

Warning at c:\ws\807b.dtd, line 90 in declaration parameter 4:

Duplicate specification occurred for "%ipbforwd"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:

In file included at c:\ws\929a.dtd, line 205:

In file included at c:\ws\807b.dtd, line 103:

Warning at i:\dtd\784c.dtd, line 18 in declaration parameter 4:

Duplicate specification occurred for "%math"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 33 in declaration parameter 4:
Duplicate specification occurred for "%mathtxt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:
Duplicate specification occurred for "%shortitleuse"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:
Duplicate specification occurred for "%shortitle"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 47 in declaration parameter 4:
Duplicate specification occurred for "%yesorno"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 60 in declaration parameter 4:
Duplicate specification occurred for "%itemid"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 69 in declaration parameter 4:
Duplicate specification occurred for "%content"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 80 in declaration parameter 4:
Duplicate specification occurred for "%bodyatt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 82 in declaration parameter 4:
Duplicate specification occurred for "%list"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 86 in declaration parameter 4:
Duplicate specification occurred for "%spcpara"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:
Duplicate specification occurred for "%frnt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 118 in declaration parameter 4:
Duplicate specification occurred for "%fpi"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 126 in declaration parameter 4:
Duplicate specification occurred for "%titles"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 134 in declaration parameter 4:
Duplicate specification occurred for "%fig"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:
Duplicate specification occurred for "%bodyele"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 204 in declaration parameter 4:
Duplicate specification occurred for "%graphatt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 238 in declaration parameter 4:
Duplicate specification occurred for "%entryatt"; duplicate ignored

sgmls: In file included at \ws\9481.dtd, line 50:
In file included at c:\ws\929a.dtd, line 205:
In file included at c:\ws\807b.dtd, line 103:
Warning at i:\dtd\784c.dtd, line 248 in declaration parameter 4:
Duplicate specification occurred for "%lrp"; duplicate ignored

sgmls: Warning at \ws\9481.dtd, line 206 at record end:
Element "UNIT" used in DTD but not defined

sgmls: SGML error:
Capacity limit TOTALCAP exceeded by 51645 points

TOTALCAP 251645
ENTCAP 13568
ENTCHCAP 17229
ELEMCA 9344
GRPCAP 73376
EXGRPCAP 1696
EXNMCA 4288
ATTCAP 94816
ATTCHCAP 2253
AVGRPCAP 34816
NOTCAP 96
NOTCHCAP 163
IDCAP 0
IDREFCAP 0
MAPCAP 0
LKSETCAP 0
LKNMCA 0

6.4 Sema Mark-it Parser Log

```
<!--*** file:\xgml\9481.dtd line:142 pos:4646
Unknown parameter entity name (wp) used in reference.
If name is spelt correctly check that the entity declaration in the DTD
contains a PERO (e.g. %) symbol followed by a space.-->

<!--*** file:\xgml\9481.dtd line:142 pos:4649
Syntax error. Valid tokens at this point are: Ee s pero dtgo name grpo rniPCDATA .-->

<!--*** file:\xgml\9481.dtd line:143 pos:4719
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9481.dtd line:143 pos:4756
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9481.dtd line:143 pos:4765
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9481.dtd line:144 pos:4793
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9481.dtd line:144 pos:4810
Syntax error. Valid tokens at this point are: Ee s mdo_mdc mdo_com pio mdo_dso pero ms
dsc mdoNOTATION mdoENTITY mdoELEMENT mdoSHORTREF mdoATTLIST mdoUSEMAP .-->

<!--*** file:\xgml\9481.dtd line:146 pos:4878
Illegal end of entity within a delimited text (e.g. a declaration).
ISO 8879 prohibits declarations that start in one entity and end in another.-->

ATTCNT --100-- 47
ATTSPLEN --960-- 0
BSEQLEN --960-- 0
DTAGLEN --16-- 0
DTEMPLN --16-- 0
ENTLVL --16-- 3
GRPCNT --32-- 22
GRPGTCNT --96-- 27
GRPLVL --16-- 5
LITLEN --3048-- 730
NAMELEN --32-- 13
NORMSEP --2-- 0
PILEN --240-- 0
TAGLEN --960-- 0
```


TAGLVL --24-- 0
MSDLVL --24-- 1
TOTALCAP --300000-- 157356
ENTCAP --200000-- 16320
ENTCHCAP --70000-- 12169
ELEMCAPI --70000-- 6048
GRPCAP --100000-- 42848
EXGRPCAP --70000-- 864
EXNMCAPI --70000-- 1408
ATTCAPI --200000-- 54592
ATTCHCAP --70000-- 1347
AVGRPCAP --70000-- 21504
NOTCAP --70000-- 96
NOTCHCAP --70000-- 160
IDCAP --70000-- 0
IDREFCAP --70000-- 0
MAPCAP --70000-- 0
LKSETCAP --70000-- 0
LKNMCAPI --70000-- 0

6.5 D929AL0.DTD

<!-- ***** START OF FILE ***** -->

<!-- SUPPLEMENT NOTICE: This file is made available to provide the user with a digital representation of the DTD found in Appendix L of MIL-M-87929A. This file is incomplete without MIL-M-87929A. -->

<!-- NOTE: The start and end of this file are marked with a row of asterisks. If these rows are not present the file may not be complete! -->

<!-- MIL-M-87929A Installation-Engineering Facility DTD -->

<!-- The following set of declarations may be referred to by using a public entity as follows:

```
<!ENTITY % m87929ief PUBLIC "-//USA-DOD//DTD MIL-M-87929A IEF//EN" >
% m87929ief;
-->
```

<!-- NOTE: In order to parse the following DTD subset alone, append the following statement to the beginning of the file:

```
<!DOCTYPE docief [

and the associated ">" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

<!ENTITY % m87929a PUBLIC "-//USA-DOD//DTD MIL-M-87929A//EN" >

<!ENTITY % sttec "(wpidinfo, para0, (toollist, para0*)?, (eqplist, para0*)?,
(consum, para0*)?, (contlist, para0*)?, (eqpsup, para0*)?, noeqpsup, para0*)" >

<!ENTITY % list "(seqlist | randlist | deflist)" >

<!ENTITY % spcpara "(warning?, caution?, note?)" >

<!ENTITY % fpi "(para0, (para0 | %list; | symsect | abbrsect | %spcpara;)*,
internatlstd?, lrp?, tctolist?)" >

<!ENTITY % forwp "(wpidinfo, contents, illuslist?, tablelist?, purpose, scope,
%fpi, manstru, coverage?, indexscheme, locinfo, para0*, facdesc, leadpartic,
caplim, maintcon?, envcont?, warrprov?, para0*, tmimprep?)" >
```

<!ENTITY optest "Accomplish the performance, alignment, and adjustment routines on the installed facility in the presence of representatives of the using command." >

%m87929a;

<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

<!ELEMENT caplim - o (table) >
<!ATTLIST caplim %secur; >

<!ELEMENT docief - - (front, aiwp, forewordwp, sttecwp, engwp, inswp, testwp, ddwp?, foldsect?) +(pgbrk | brk) >
<!ATTLIST docief service %service; 'AF'
%docatt;
%secur; >

<!ELEMENT electronic - o (%nparcon;, subpara2*) >
<!ATTLIST electronic tocentry %yesorno; "1"
shortentry %yesorno; "0"
verified %yesorno; "0"
%bodyatt;
%secur; >

<!ELEMENT engwp - - (%wp;, wpforewd, safesum?, ((siting, structures, powerreq, layout, para0*) | swp*)) +(figure | table | foldout) >
<!ATTLIST engwp chgno NUMBER "0"
%bodyatt;
%secur; >

<!ELEMENT eqpsup - - ((nomen, partno, descript)+) >
<!ATTLIST eqpsup tocentry %yesorno; "1"
shortentry %yesorno; "0"
verified %yesorno; "0"
%bodyatt;
%secur; >

<!ELEMENT equipmat - o (para0, table*) >
<!ATTLIST equipmat %secur; >

<!ELEMENT facdesc - o (%parazero;) >
<!ATTLIST facdesc tocentry %yesorno; "1"
shortentry %yesorno; "0"
verified %yesorno; "0"
%bodyatt;
%secur; >

<!ELEMENT geograph - o (%nparcon;, subpara2*) >

```
<!ATTLIST geograph      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT inside        - o (%nparcon;, subpara2*) >
<!ATTLIST inside        tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT install       - o (%parazero;) >
<!ATTLIST install       tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT inswp         - - (%wp;, wpforewd, safesum?, ((equipmat, install,
                          manpower, para0*) | swp*))  +(figure | table |
                          foldout) >
<!ATTLIST inswp         chgno NUMBER "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT layout        - o (%parazero;) >
<!ATTLIST layout        tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT logistic      - o (%nparcon;, subpara2*) >
<!ATTLIST logistic      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT manpower      - o (%parazero;) >
<!ATTLIST manpower      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT noeppsupsup   - o (table) >
<!ATTLIST noeppsupsup   %secur; >
```

```
<!ELEMENT operat      - o (%parazero;) >
<!ATTLIST operat      tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >

<!ELEMENT outside     - o (%nparcon;, subpara2*) >
<!ATTLIST outside     tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >

<!ELEMENT powerreq    - o (%parazero;) >
<!ATTLIST powerreq    tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >

<!ELEMENT preshake    - o (%parazero;) >
<!ATTLIST preshake    tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >

<!ELEMENT shakedown   - o (%parazero;) >
<!ATTLIST shakedown   tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >

<!ELEMENT siting      - o (%titles;, warning*, caution*, note*, (para,
                           note*)?, (step1, step1+)?, electronic, logistic,
                           geograph, subpara1*) >
<!ATTLIST siting      tocentry %yesorno; "1"
                       shortentry %yesorno; "0"
                       verified %yesorno; "0"
                       %bodyatt;
                       %secur; >
```

```
<!ELEMENT structures      - o (%titles;, warning*, caution*, note*, (para,
                             note*)?, (step1, step1+)?, inside, outside,
                             subparal*) >
<!ATTLIST structures      tocentry %yesorno; "1"
                             shortentry %yesorno; "0"
                             verified %yesorno; "0"
                             %bodyatt;
                             %secur; >

<!ELEMENT testwp          - - (%wp;, wpforewd, ((preshake, shakedown, operat,
                             para0*) | swp*)) +(figure | table | foldout) >
<!ATTLIST testwp          chgno NUMBER "0"
                             %bodyatt;
                             %secur; >

<!-- ***** END OF FILE ***** -->
```